

Jidong Lu

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,265
citations

279798

23
h-index

361022

35
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45
all docs

45
docs citations

45
times ranked

721
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Effects of experimental parameters on elemental analysis of coal by laser-induced breakdown spectroscopy. <i>Optics and Laser Technology</i> , 2009, 41, 907-913. | 4.6 | 82 |
| 2 | Application of LIBS for direct determination of volatile matter content in coal. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2183. | 3.0 | 74 |
| 3 | Extracting Coal Ash Content from Laser-Induced Breakdown Spectroscopy (LIBS) Spectra by Multivariate Analysis. <i>Applied Spectroscopy</i> , 2011, 65, 1197-1201. | 2.2 | 72 |
| 4 | Carbon Isotope Separation and Molecular Formation in Laser-Induced Plasmas by Laser Ablation Molecular Isotopic Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 2899-2906. | 6.5 | 69 |
| 5 | Multi-elemental analysis of fertilizer using laser-induced breakdown spectroscopy coupled with partial least squares regression. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1733. | 3.0 | 55 |
| 6 | Elucidation of C2 and CN formation mechanisms in laser-induced plasmas through correlation analysis of carbon isotopic ratio. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 62-69. | 2.9 | 53 |
| 7 | Quantitative Analysis of Calorific Value of Coal Based on Spectral Preprocessing by Laser-Induced Breakdown Spectroscopy (LIBS). <i>Energy & Fuels</i> , 2018, 32, 24-32. | 5.1 | 52 |
| 8 | Analyzing unburned carbon in fly ash using laser-induced breakdown spectroscopy with multivariate calibration method. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 473. | 3.0 | 49 |
| 9 | Optimizing the binder percentage to reduce matrix effects for the LIBS analysis of carbon in coal. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 766-772. | 3.0 | 46 |
| 10 | Study of laser-induced breakdown spectroscopy to discriminate pearlitic/ferritic from martensitic phases. <i>Applied Surface Science</i> , 2011, 257, 3103-3110. | 6.1 | 45 |
| 11 | Rapid Determination of the Gross Calorific Value of Coal Using Laser-Induced Breakdown Spectroscopy Coupled with Artificial Neural Networks and Genetic Algorithm. <i>Energy & Fuels</i> , 2017, 31, 3849-3855. | 5.1 | 42 |
| 12 | Combining laser-induced breakdown spectroscopy and Fourier-transform infrared spectroscopy for the analysis of coal properties. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 347-355. | 3.0 | 39 |
| 13 | Rapidly Measuring Unburned Carbon in Fly Ash Using Molecular CN by Laser-Induced Breakdown Spectroscopy. <i>Energy & Fuels</i> , 2015, 29, 1257-1263. | 5.1 | 33 |
| 14 | Elemental analysis of coal by tandem laser induced breakdown spectroscopy and laser ablation inductively coupled plasma time of flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 109, 44-50. | 2.9 | 33 |
| 15 | A comparative model combining carbon atomic and molecular emissions based on partial least squares and support vector regression correction for carbon analysis in coal using LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 480-488. | 3.0 | 32 |
| 16 | Feature selection of laser-induced breakdown spectroscopy data for steel aging estimation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 150, 49-58. | 2.9 | 30 |
| 17 | Experimental Study of Laser-Induced Breakdown Spectroscopy (LIBS) for Direct Analysis of Coal Particle Flow. <i>Applied Spectroscopy</i> , 2014, 68, 672-679. | 2.2 | 29 |
| 18 | Estimation of the mechanical properties of steel via LIBS combined with canonical correlation analysis (CCA) and support vector regression (SVR). <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 720-729. | 3.0 | 27 |

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|----|--|-----|-----------|
| 19 | Feasibility study of gross calorific value, carbon content, volatile matter content and ash content of solid biomass fuel using laser-induced breakdown spectroscopy. <i>Fuel</i> , 2019, 258, 116150. | 6.4 | 27 |
| 20 | Improved measurement of the calorific value of pulverized coal particle flow by laser-induced breakdown spectroscopy (LIBS). <i>Analytical Methods</i> , 2019, 11, 4471-4480. | 2.7 | 26 |
| 21 | Optimization of laser-induced breakdown spectroscopy for coal powder analysis with different particle flow diameters. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 110, 146-150. | 2.9 | 25 |
| 22 | Coal Discrimination Analysis Using Tandem Laser-Induced Breakdown Spectroscopy and Laser Ablation Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 7003-7010. | 6.5 | 25 |
| 23 | Evaluation of heavy metal element detection in municipal solid waste incineration fly ash based on LIBS sensor. <i>Waste Management</i> , 2020, 102, 492-498. | 7.4 | 24 |
| 24 | Optimizing analysis of coal property using laser-induced breakdown and near-infrared reflectance spectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118492. | 3.9 | 24 |
| 25 | Correction of C-Fe line interference for the measurement of unburned carbon in fly ash by LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2418-2426. | 3.0 | 22 |
| 26 | Improved measurement in quantitative analysis of coal properties using laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 810-818. | 3.0 | 21 |
| 27 | Correlation between aging grade of T91 steel and spectral characteristics of the laser-induced plasma. <i>Applied Surface Science</i> , 2015, 346, 302-310. | 6.1 | 20 |
| 28 | Analysis of spectral properties for coal with different volatile contents by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 249-255. | 2.9 | 18 |
| 29 | A hybrid model combining wavelet transform and recursive feature elimination for running state evaluation of heat-resistant steel using laser-induced breakdown spectroscopy. <i>Analyst, The</i> , 2019, 144, 3736-3745. | 3.5 | 18 |
| 30 | Characterization of Fly Ash Laser-Induced Plasma for Improving the On-line Measurement of Unburned Carbon in Gas-Solid Flow. <i>Energy & Fuels</i> , 2017, 31, 4681-4686. | 5.1 | 17 |
| 31 | Identifying laser-induced plasma emission spectra of particles in a gas-solid flow based on the standard deviation of intensity across an emission line. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1676-1682. | 3.0 | 17 |
| 32 | Estimation of the aging grade of T91 steel by laser-induced breakdown spectroscopy coupled with support vector machines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 35-43. | 2.9 | 16 |
| 33 | Surface-enhanced laser-induced breakdown spectroscopy utilizing metallic target for direct analysis of particle flow. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 172-179. | 3.0 | 16 |
| 34 | Study on the Alkali Release from the Combustion Products of a Single Coal Particle by Laser Ignition. <i>Energy & Fuels</i> , 2017, 31, 4452-4460. | 5.1 | 14 |
| 35 | Repeatability improvement in laser induced plasma emission of particle flow by aberration-diminished focusing. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 175, 106014. | 2.9 | 13 |
| 36 | Temporally and spatially resolved study of laser-induced plasma generated on coals with different volatile matter contents. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106195. | 2.9 | 13 |

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|----|--|-----|-----------|
| 37 | Application of laser induced breakdown spectroscopy for direct and quick determination of fuel property of woody biomass pellets. <i>Renewable Energy</i> , 2021, 164, 1204-1214. | 8.9 | 9 |
| 38 | Comparison of the matrix effect in laser induced breakdown spectroscopy analysis of coal particle flow and coal pellets. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2473-2479. | 3.0 | 9 |
| 39 | Modeling and optimization of the NO _x generation characteristics of the coal-fired boiler based on interpretable machine learning algorithm. <i>International Journal of Green Energy</i> , 2022, 19, 529-543. | 3.8 | 7 |
| 40 | An image auxiliary method for laser-induced breakdown spectroscopy analysis of coal particle flow. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1126-1133. | 3.0 | 7 |
| 41 | Temporal-spatial resolved laser-induced breakdown spectroscopy of T91 steel of different aging grades. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 151, 1-11. | 2.9 | 5 |
| 42 | Improving the LIBS Quantitative Analysis of Unburned Carbon in Fly Ash Based on the Optimization of Reference Value. <i>Energy & Fuels</i> , 2020, 34, 6483-6489. | 5.1 | 4 |
| 43 | Optimizing the quantitative analysis of solid biomass fuel properties using laser induced breakdown spectroscopy (LIBS) coupled with a kernel partial least squares (KPLS) model. <i>Analytical Methods</i> , 2021, 13, 5467-5477. | 2.7 | 4 |
| 44 | Study on the evaluation of the aging grade for industrial heat-resistant steel by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 139-147. | 3.0 | 1 |
| 45 | Online optimization of boiler operation based on information integration and case-based reasoning. <i>International Journal of Green Energy</i> , 2023, 20, 15-27. | 3.8 | 1 |